



Missouri  
Department of  
Natural Resources

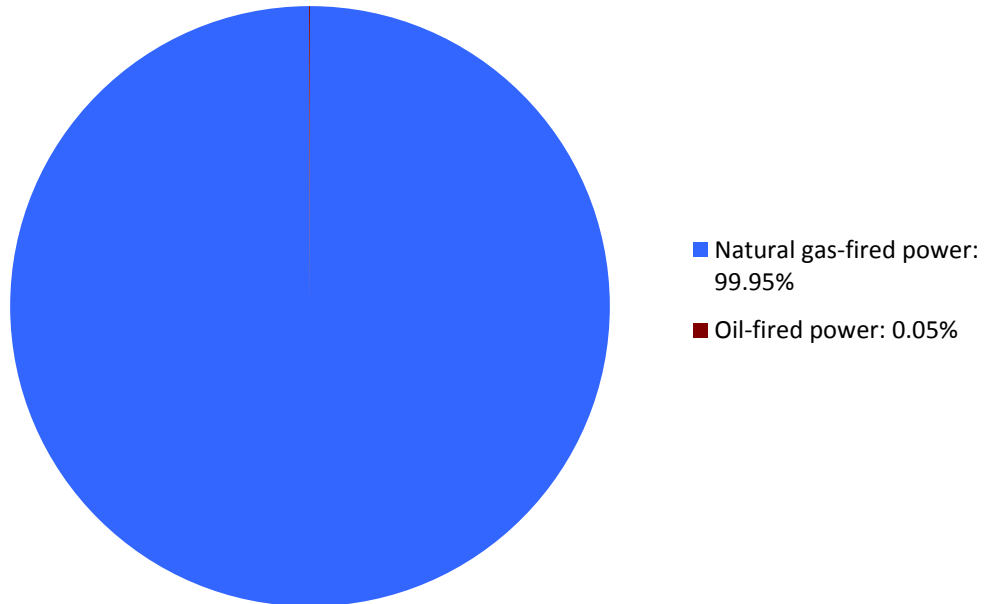
**Power Plant: Holden**  
**Plant Owner: Associated Electric Cooperative, Inc.**  
**Power generated in 2009 from non-renewable and renewable sources**

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power						
Natural gas-fired power	937,637	99.95%		76,728	99.95%	
Oil-fired power	469	0.05%		38	0.05%	
Nuclear power						
Other non-renewable power						
Non-renewable total	938,106	100.00%	100.00%	76,766	100.00%	100.00%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas						
Renewable total	0	0.00%	0.00%	0	0.00%	0.00%
Grand total all sources	938,106		100.00%	76,766		100.00%

Fuel Type	Physical Units	Number of Units
<b>Natural Gas</b>	Mcf	929,420
<b>Distillate Fuel Oil</b>	Barrels	81



### Net Generation by Fuel Type, 2009 for Holden





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**Holden**  
**Emissions from Electricity Generated in 2009**

Plant	Carbon Dioxide(CO2) (Tons)	Carbon Monoxide(CO) (Tons)	Ammonia (NH3) (Tons)	Nitrogen Oxides (NOx) (Tons)	Sulfur Dioxides (SO2) (Tons)
<b>Holden</b>	58,007.90	0.76	NV	12.31	0.71

Plant	Volatile Organic Compounds (VOC) (Tons)	Coarse Particulate Matter (PM10) (Tons)	Fine Particulate Matter (PM2.5) (Tons)	Mercury (Hg) (LBS)
<b>Holden</b>	1.08	1.57	1.56	NV

'NV' = Emissions value not available.



### Pollution controls installed on Holden

<b>SO2 Controls</b>			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
<b>Holden</b>	No SO2 Controls Installed		

<b>NOX Controls</b>				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
<b>Holden</b>	MODIFIED FURNACE OR BURNER DESIGN	DRY LOW-NO, BURNERS	100.00%	40.00%
<b>Holden</b>	WATER INJECTION	WATER INJECTION	100.00%	41.30%

### Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)  
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy  
[http://www.eia.gov/cneaf/electricity/page/eia906\\_920.html](http://www.eia.gov/cneaf/electricity/page/eia906_920.html)